

UDOT Minimum Sampling and Testing Requirements

Specification - Material: 03056 Self-Consolidating Concrete

Assurance: Sieve Analysis

Reference: AASHTO T 27/T 11

Lot Size: Weekly production

Frequency per Lot: One test per stockpile during any week concrete is being provided to a UDOT project

Point of Acceptance: Supplier Stockpile

Sampling Reference: AASHTO T 2

Report/Form:

Assurance: Slump Flow, Visual Stability Index (VSI), Air Content and Concrete Temperature

Reference: AASHTO TP 73, AASHTO TP 80, AASHTO T 152 (meter type B, do not rod, vibrate, or tap the bowl), AASHTO T 309

Lot Size: Production Day

Frequency per Lot: Test until two consecutive batches meet specification at beginning of placement, after shutdowns of 1 hour or more, and after each failed batch, Randomly thereafter for each 50 cubic yard minimum. If the first determination fails, immediately retest. If the second test meets specification, immediately retest. Batch is rejected on two failed determinations.

Point of Acceptance: Project Location – if first determination fails, immediately retest. If the second test meets specification, immediately retest. Batch is rejected on two failed determinations.

Sampling Reference: WAQTC TM 2

Report/Form:

Assurance: Compressive Strength Test

Reference: Cast in accordance with AASHTO T 23 (exceptions: Fill cylinder mold with a scoop from a height of 6 inches above the mold top until filled, strike off according to AASHTO T 23, do not rod, tap, or vibrate the sample)

Tested in accordance with AASHTO T 22

One compressive strength test consists of a set of three cylinders

Lot Size: Production Day

Frequency per Lot: One determination for each 50 cubic yards or fraction thereof.

Point of Acceptance: Project Location

Sampling Reference: WAQTC TM 2

Report/Form: Materials Database